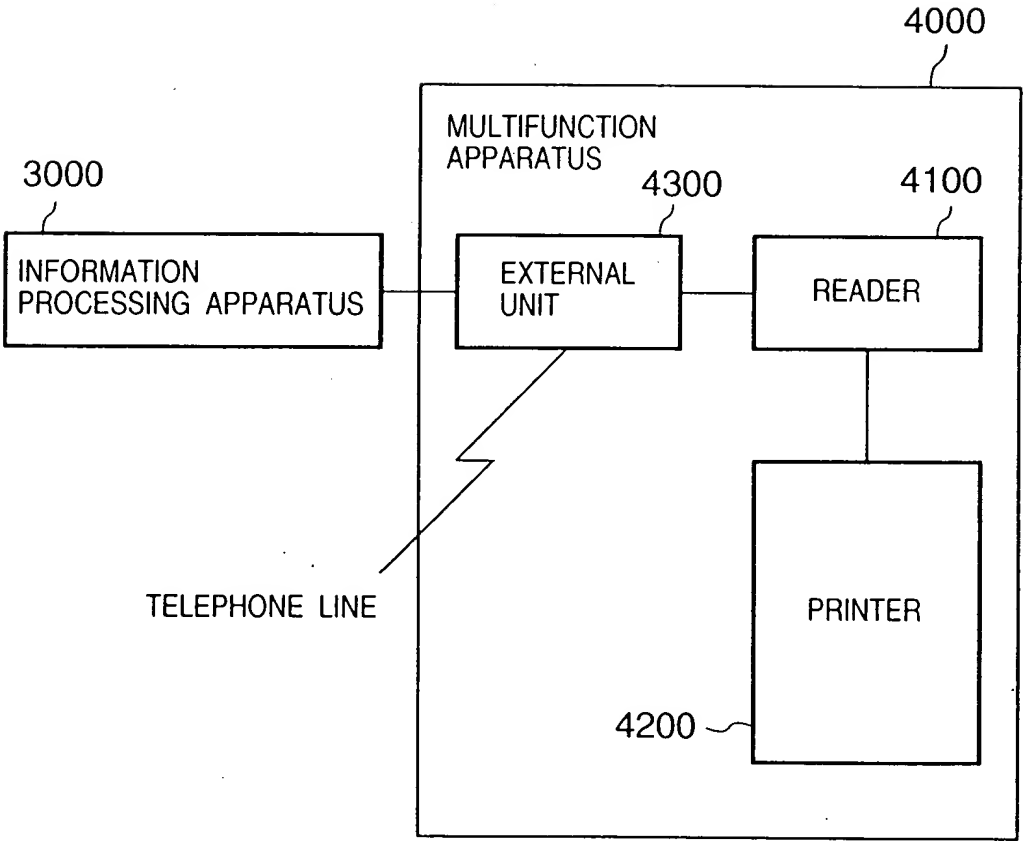
FIG. 1


4000
MULTIFUNCTION APPARATUS
3000
INFORMATION PROCESSING APPARATUS
4300
EXTERNAL UNIT
4100
READER
PRINTER
4200
TELEPHONE LINE

Document 2656845

FIG. 2

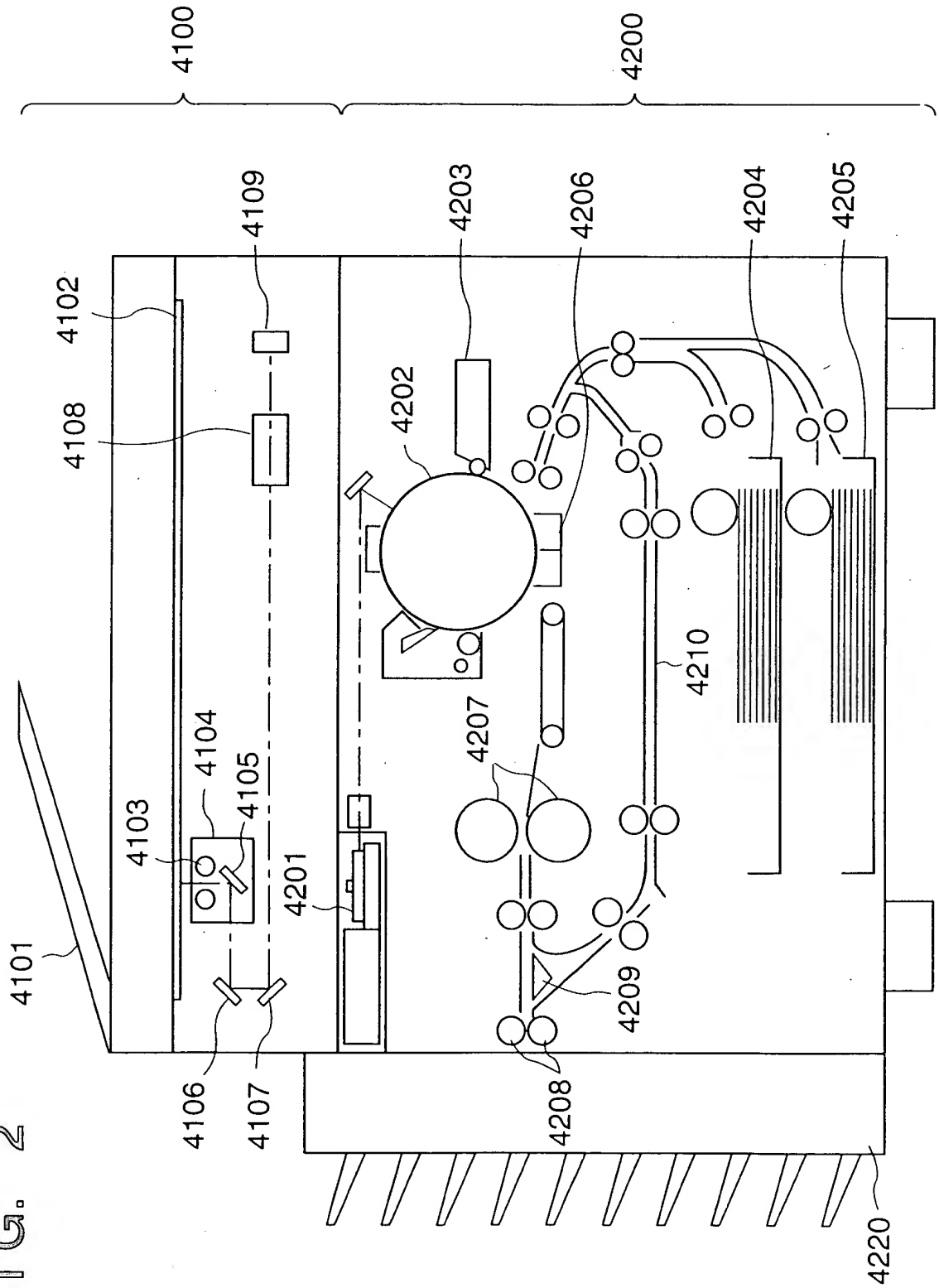


FIG. 3

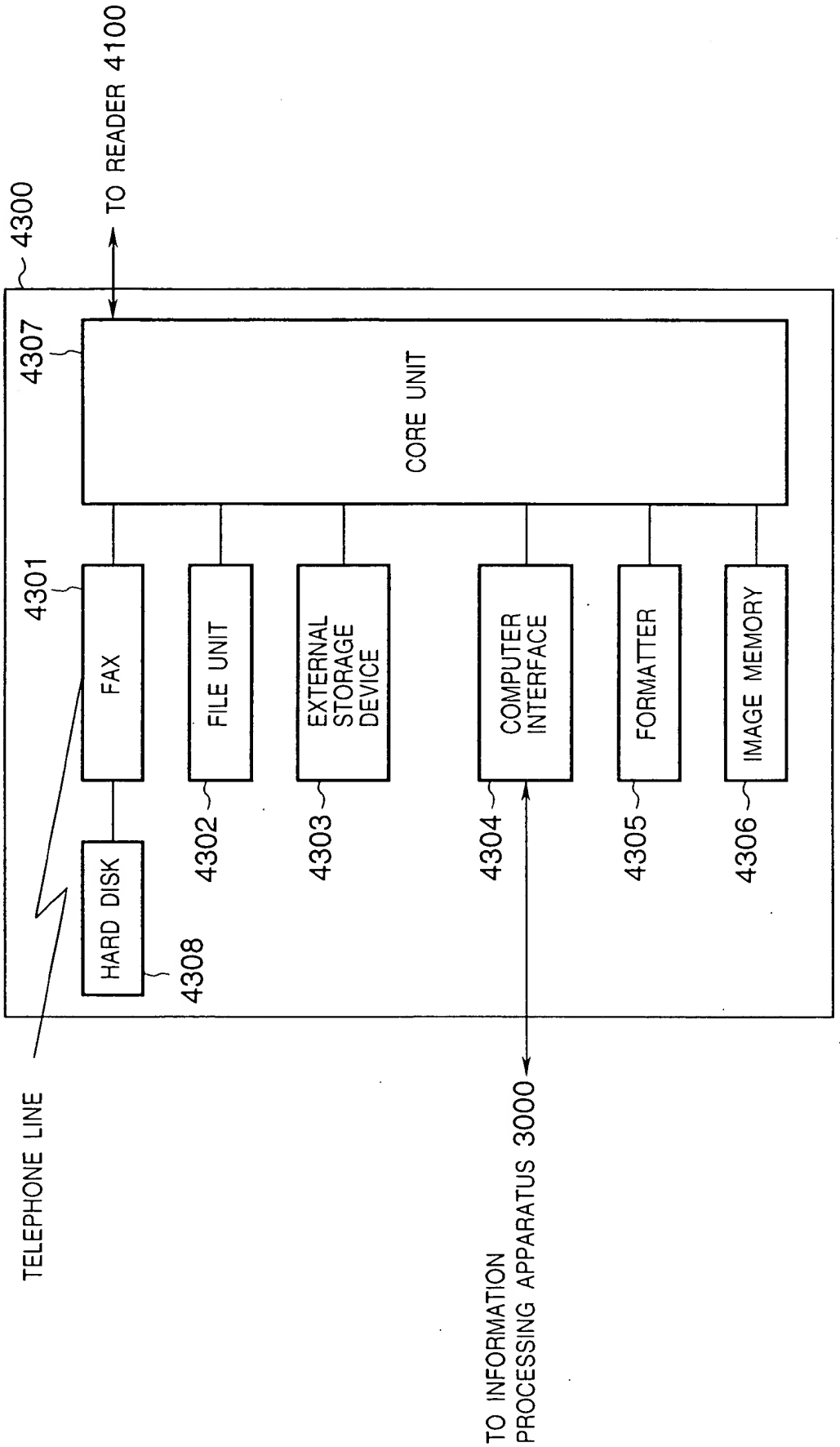

4300
TO READER 4100
4307
CORE UNIT
4301
FAX
FILE UNIT
EXTERNAL STORAGE DEVICE
COMPUTER INTERFACE
FORMATTER
IMAGE MEMORY
HARD DISK
4308
4302
4303
4304
4305
4306
TELEPHONE LINE
TO INFORMATION PROCESSING APPARATUS 3000

FIG. 4

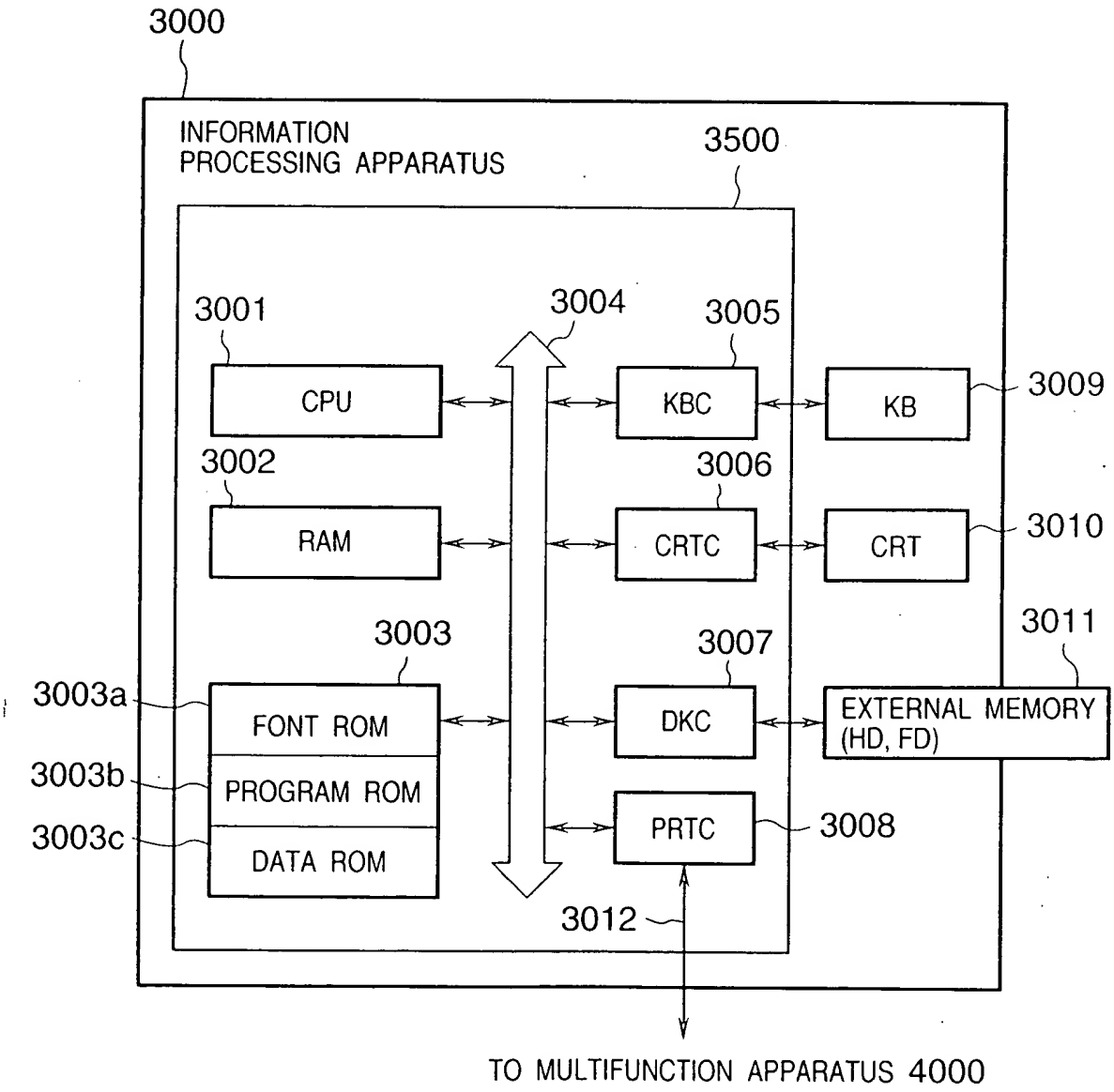

3000
INFORMATION PROCESSING APPARATUS
3500
3001
3004
3005
CPU
KBC
KB
3009
3002
3006
RAM
CRTC
CRT
3010
3003
3007
3011
3003a
FONT ROM
DKC
EXTERNAL MEMORY (HD, FD)
3003b
PROGRAM ROM
3003c
DATA ROM
PRTC
3008
3012
TO MULTIFUNCTION APPARATUS 4000

FIG. 5

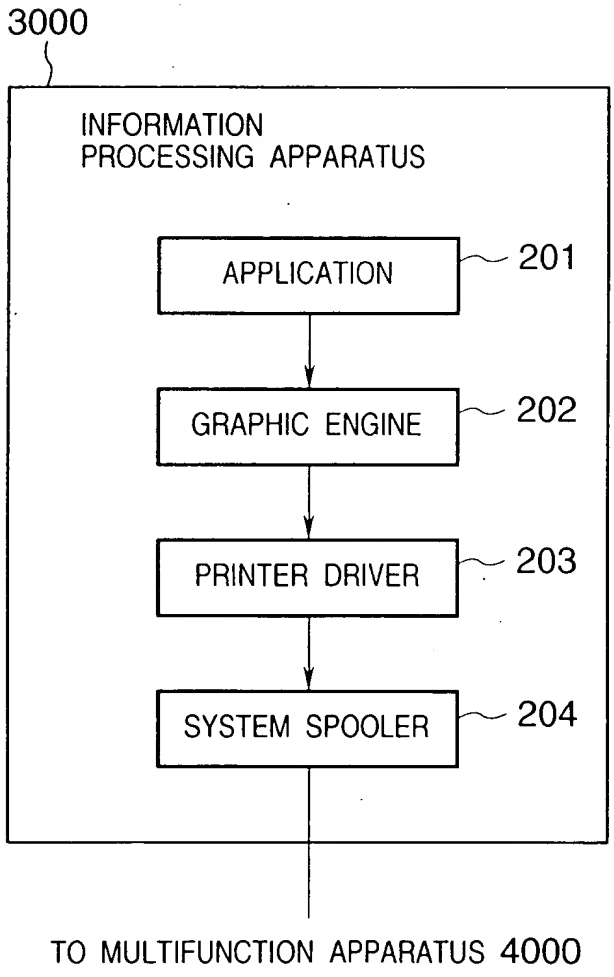

3000
INFORMATION
PROCESSING APPARATUS
APPLICATION
201
GRAPHIC ENGINE
202
PRINTER DRIVER
203
SYSTEM SPOOLER
204
TO MULTIFUNCTION APPARATUS 4000

FIG. 6

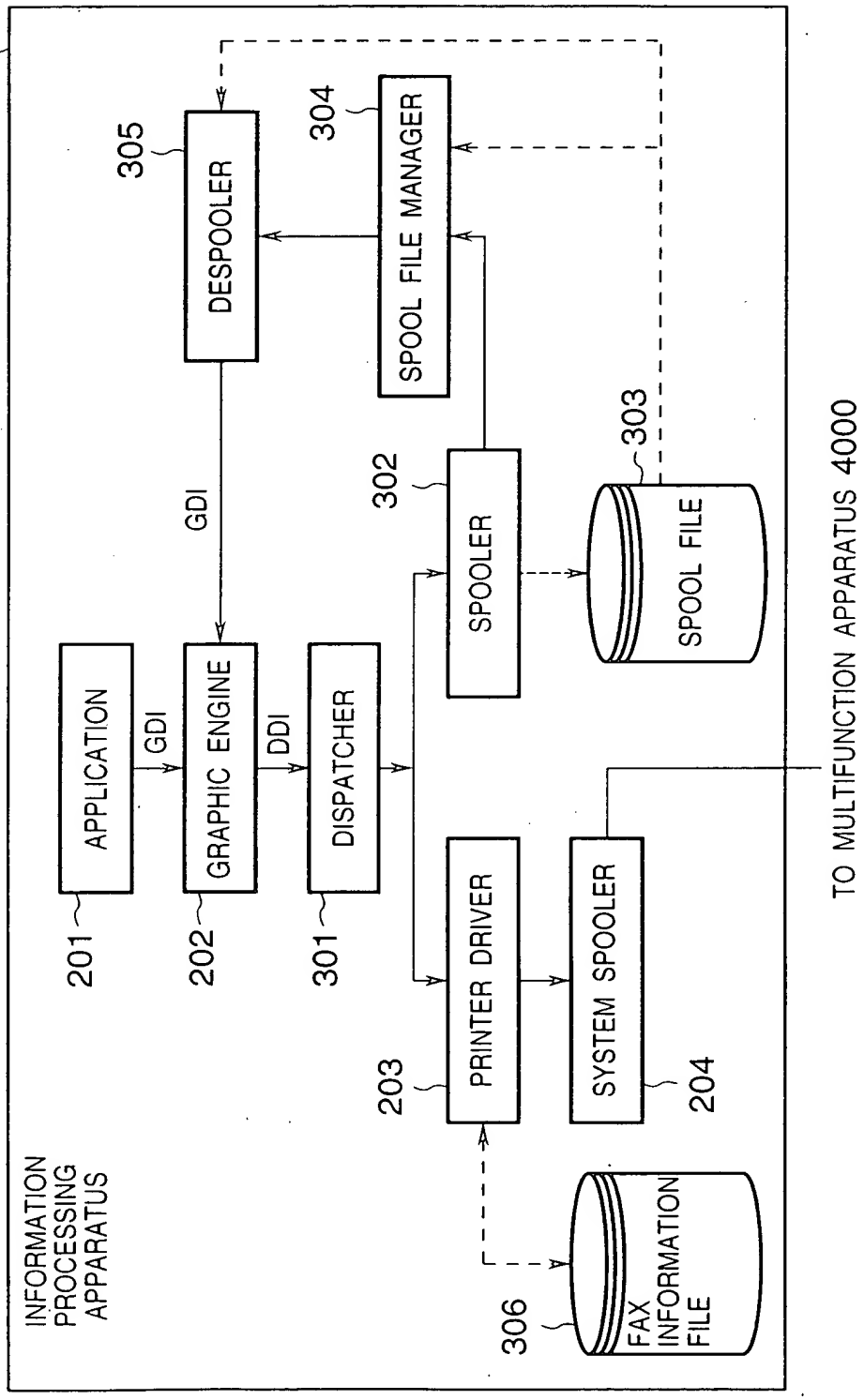

3000
INFORMATION PROCESSING APPARATUS
APPLICATION
201
GDI
GRAPHIC ENGINE
202
DDI
DISPATCHER
301
GDI
DESPOOLER
305
SPOOL FILE MANAGER
304
SPOOLER
302
SPOOL FILE
303
PRINTER DRIVER
203
SYSTEM SPOOLER
204
FAX INFORMATION FILE
306
TO MULTIFUNCTION APPARATUS 4000

FIG. 7

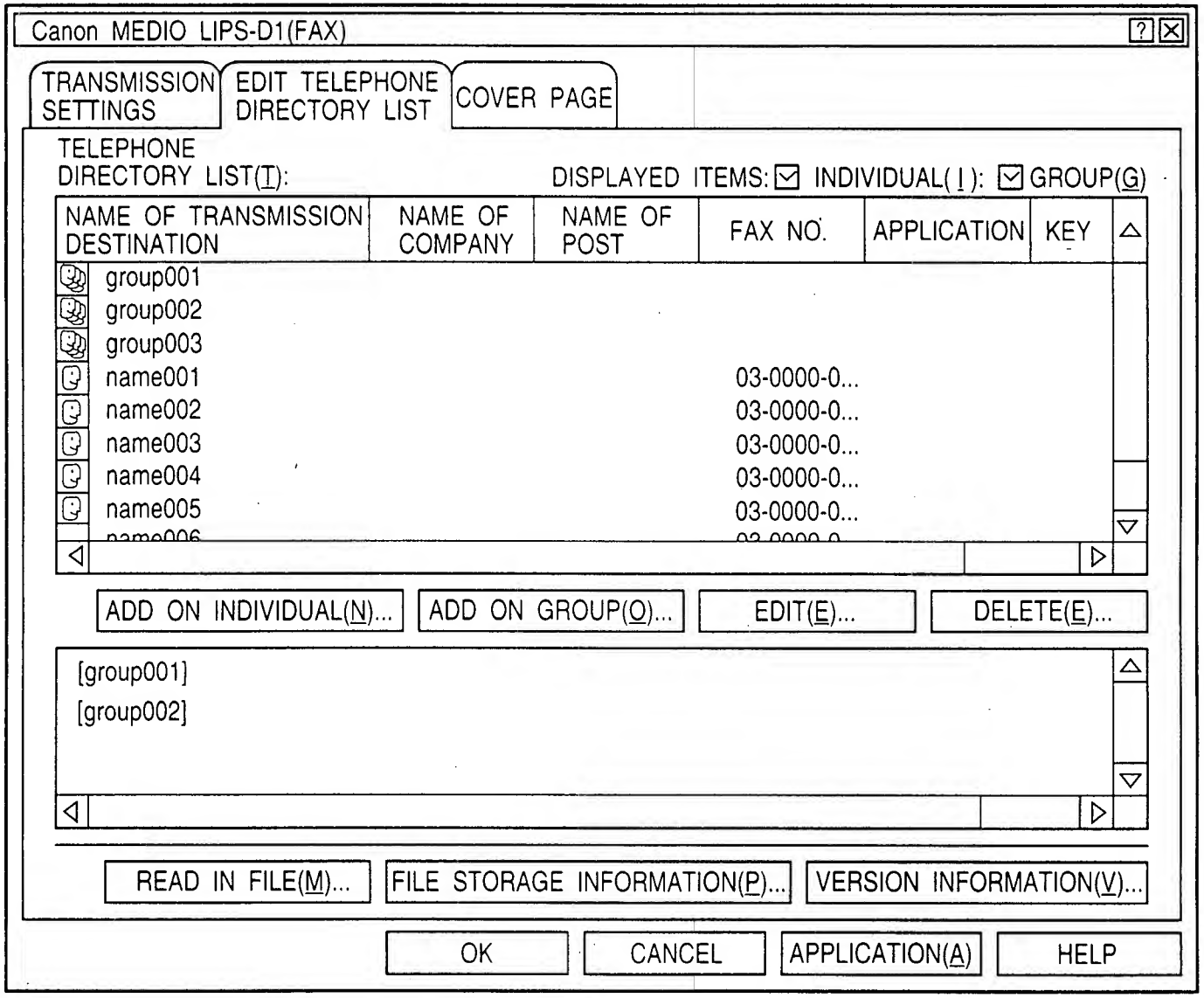

Canon MEDIO LIPS-D1(FAX)
TRANSMISSION SETTINGS
EDIT TELEPHONE DIRECTORY LIST
COVER PAGE
TELEPHONE DIRECTORY LIST(T):
DISPLAYED ITEMS: INDIVIDUAL(I): GROUP(G)
NAME OF TRANSMISSION DESTINATION
NAME OF COMPANY
NAME OF POST
FAX NO.
APPLICATION
KEY
group001
group002
group003
name001 03-0000-0...
name002 03-0000-0...
name003 03-0000-0...
name004 03-0000-0...
name005 03-0000-0...
ADD ON INDIVIDUAL(N)...
ADD ON GROUP(O)...
EDIT(E)...
DELETE(E)...
[group001]
[group002]
READ IN FILE(M)...
FILE STORAGE INFORMATION(P)...
VERSION INFORMATION(V)...
OK
CANCEL
APPLICATION(A)
HELP

FIG. 8

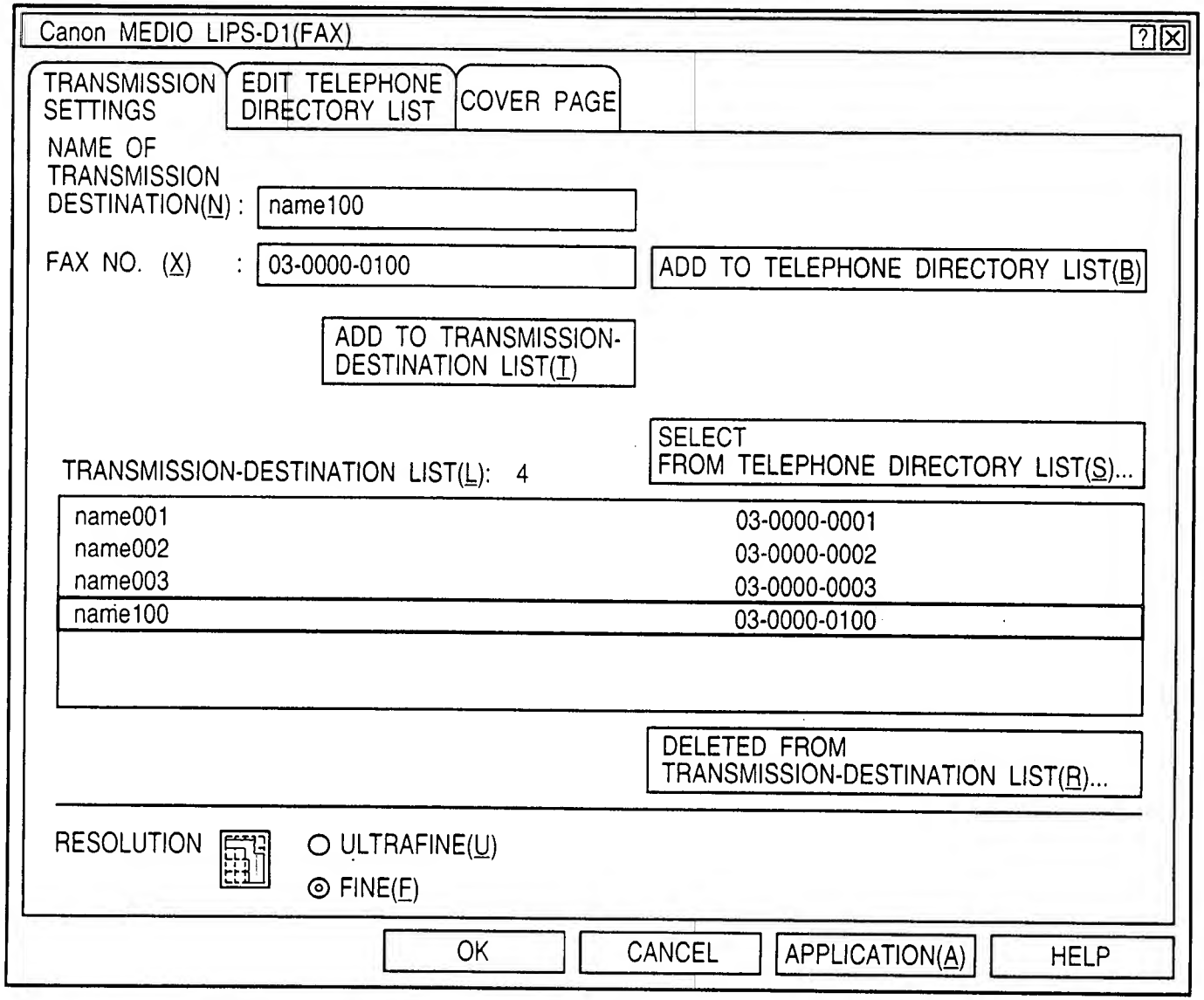

Canon MEDIO LIPS-D1(FAX)
TRANSMISSION SETTINGS
EDIT TELEPHONE DIRECTORY LIST
COVER PAGE
NAME OF TRANSMISSION DESTINATION(N) :
name100
FAX NO. (X) :
03-0000-0100
ADD TO TELEPHONE DIRECTORY LIST(B)
ADD TO TRANSMISSION-DESTINATION LIST(T)
SELECT FROM TELEPHONE DIRECTORY LIST(S)...
TRANSMISSION-DESTINATION LIST(L): 4
name001 03-0000-0001
name002 03-0000-0002
name003 03-0000-0003
name100 03-0000-0100
DELETED FROM TRANSMISSION-DESTINATION LIST(R)...
RESOLUTION
ULTRAFINE(U)
FINE(F)
OK
CANCEL
APPLICATION(A)
HELP

FIG. 9

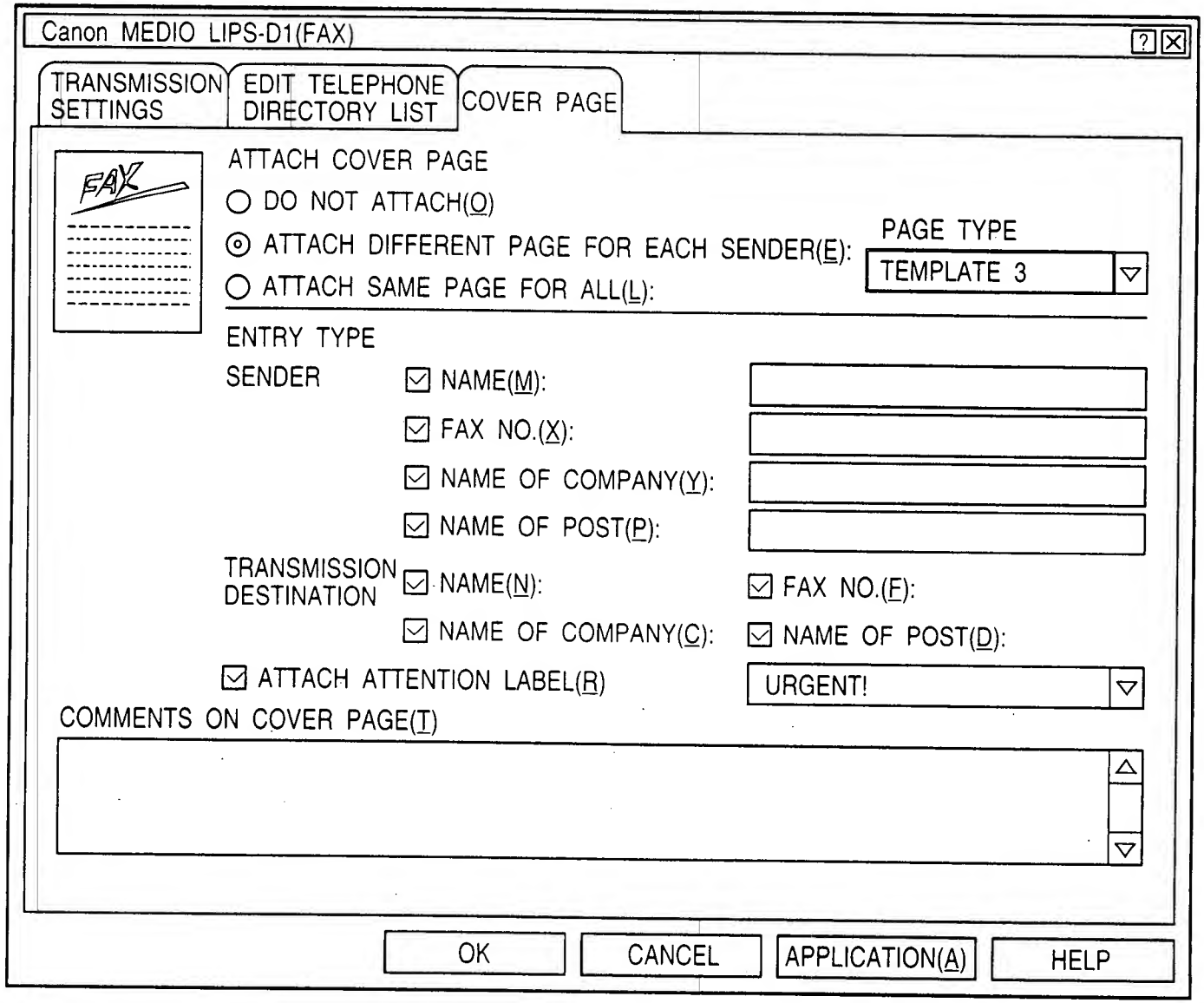
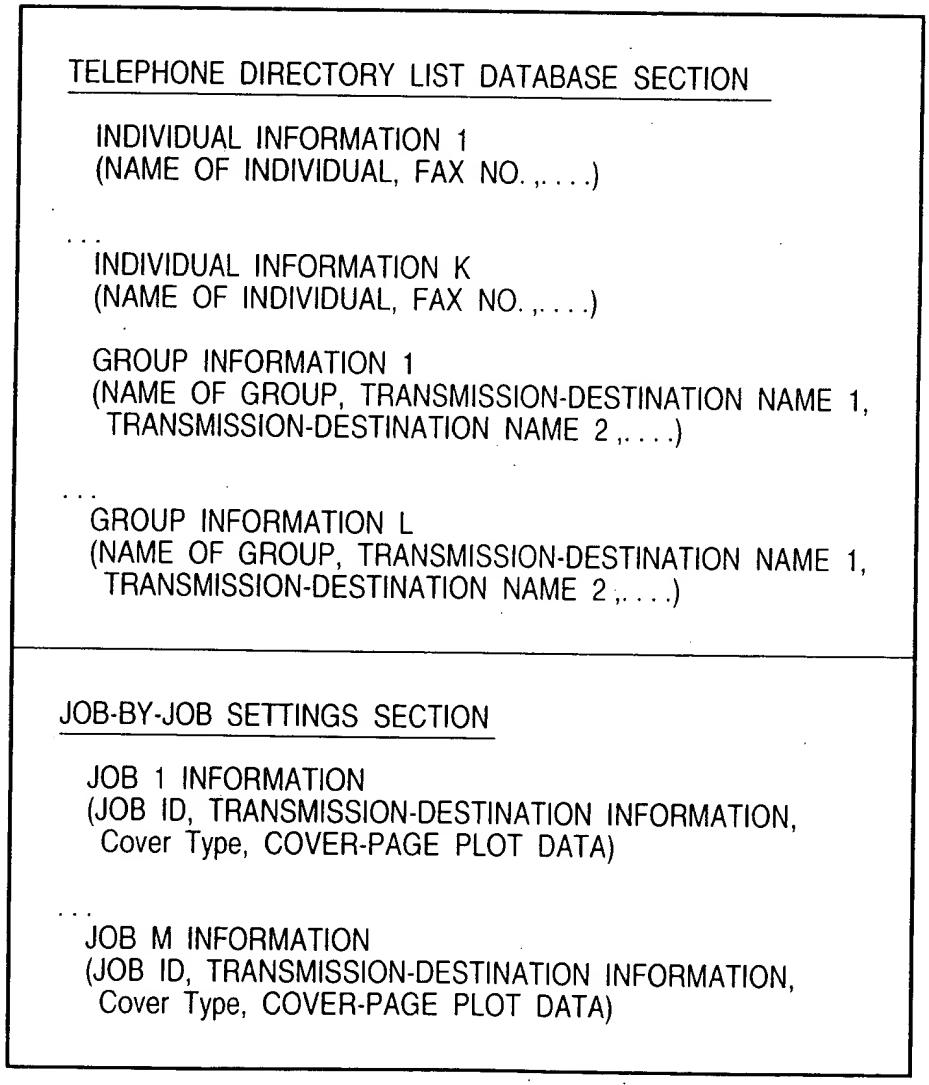

Canon MEDIO LIPS-D1(FAX)
TRANSMISSION SETTINGS
EDIT TELEPHONE DIRECTORY LIST
COVER PAGE
FAX
ATTACH COVER PAGE
DO NOT ATTACH(O)
ATTACH DIFFERENT PAGE FOR EACH SENDER(E):
ATTACH SAME PAGE FOR ALL(L):
PAGE TYPE
TEMPLATE 3
ENTRY TYPE
SENDER
NAME(M):
FAX NO.(X):
NAME OF COMPANY(Y):
NAME OF POST(P):
TRANSMISSION DESTINATION
NAME(N):
FAX NO.(F):
NAME OF COMPANY(C):
NAME OF POST(D):
ATTACH ATTENTION LABEL(R)
URGENT!
COMMENTS ON COVER PAGE(T)
OK
CANCEL
APPLICATION(A)
HELP

FIG. 10


TELEPHONE DIRECTORY LIST DATABASE SECTION
INDIVIDUAL INFORMATION 1
(NAME OF INDIVIDUAL, FAX NO.,....)
...
INDIVIDUAL INFORMATION K
(NAME OF INDIVIDUAL, FAX NO.,....)
GROUP INFORMATION 1
(NAME OF GROUP, TRANSMISSION-DESTINATION NAME 1,
TRANSMISSION-DESTINATION NAME 2,....)
...
GROUP INFORMATION L
(NAME OF GROUP, TRANSMISSION-DESTINATION NAME 1,
TRANSMISSION-DESTINATION NAME 2,....)
JOB-BY-JOB SETTINGS SECTION
JOB 1 INFORMATION
(JOB ID, TRANSMISSION-DESTINATION INFORMATION,
Cover Type, COVER-PAGE PLOT DATA)
...
JOB M INFORMATION
(JOB ID, TRANSMISSION-DESTINATION INFORMATION,
Cover Type, COVER-PAGE PLOT DATA)

EP 2 256 960 A1

FIG. 11

COVER-PAGE SETTINGS	Cover Type
DO NOT ATTACH	0
ATTACH DIFFERENT PAGE FOR EACH SENDER	1
ATTACH SAME PAGE FOR ALL	2

FIG. 12

JOB SETTINGS INFORMATION SECTION
Job ID: JOB IDENTIFIER
Destination: OUTPUT-DESTINATION SETTING
Paper Size Option: PAPER-SIZE OPTION
Paper Size: PAPER-SIZE
. . .

PAGE SETTINGS INFORMATION SECTION
[CONFIGURATION 1]
Dev Mode ID: PAGE SETTINGS IDENTIFIER
Paper: PAPER SIZE
Orientation: PAPER ORIENTATION
. . .
[CONFIGURATION 2]
Dev Mode ID: PAGE SETTINGS IDENTIFIER
Paper: PAPER SIZE
Orientation: PAPER ORIENTATION
. . .

PLOT-OBJECT INFORMATION SECTION
[PAGE SETTING IDENTIFIER 1]
Dev Mode ID: PAGE SETTINGS IDENTIFIER
Record 1, Record 2,. . .
[PAGE SETTING IDENTIFIER 2]
Dev Mode ID: PAGE SETTINGS IDENTIFIER
Record 1, Record 2,. . .
. . .
[Objects]
Font1, Font2, . . .
Pen1, Pen2,. . .
Brush1, Brush2,. . .

1201

1202

Paper Size Option	MEANING
0	PAPER SIZE ON PER-PAGE BASIS
1	PAPER SIZE OF LEADING PAGE
2	SIZE SPECIFIED IN Paper Size

FIG. 13

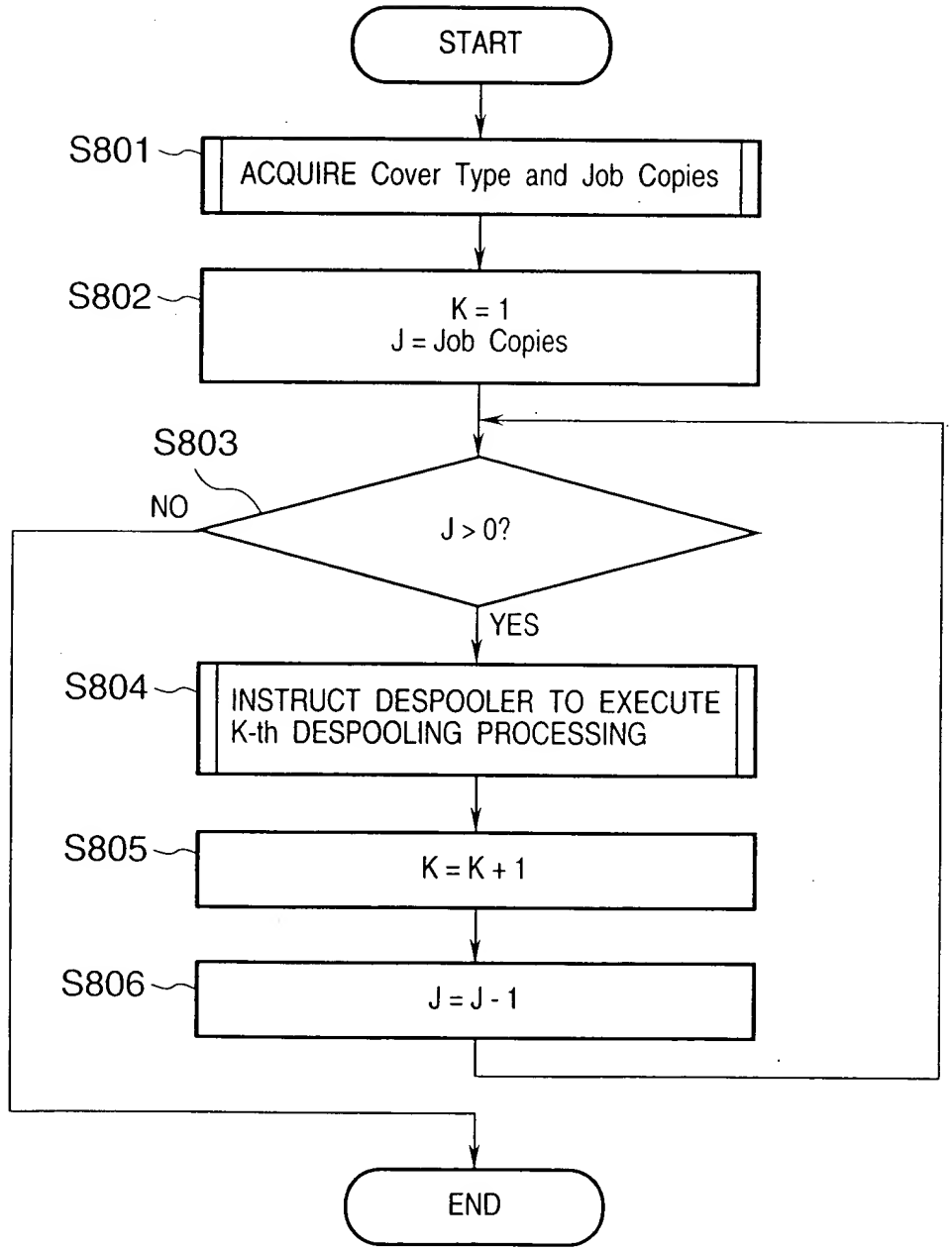

START
S801
ACQUIRE Cover Type and Job Copies
S802
K = 1
J = Job Copies
S803
NO
J > 0?
YES
S804
INSTRUCT DESPOOLER TO EXECUTE
K-th DESPOOLING PROCESSING
S805
K = K + 1
S806
J = J - 1
END

FIG. 14

NAME OF VARIABLE	MEANING
Cover Type	0 : DO NOT ATTACH
	1 : ATTACH DIFFERENT PAGE FOR EACH SENDER
	2 : ATTACH SAME PAGE FOR ALL
Job Copies	NUMBER OF DIVIDED JOBS

FIG. 15

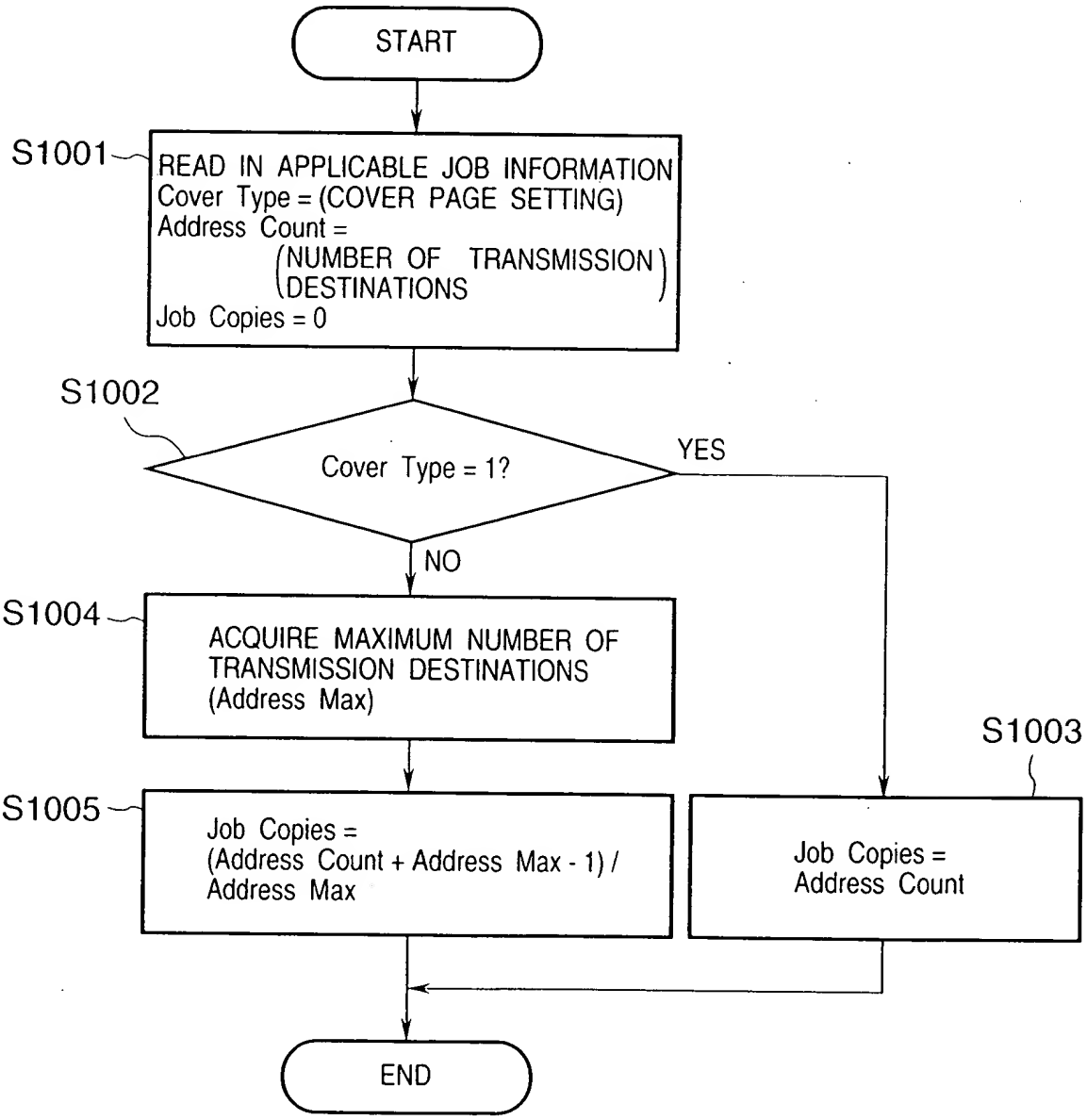

START
S1001
READ IN APPLICABLE JOB INFORMATION
Cover Type = (COVER PAGE SETTING)
Address Count = (NUMBER OF TRANSMISSION DESTINATIONS)
Job Copies = 0
S1002
Cover Type = 1?
YES
NO
S1004
ACQUIRE MAXIMUM NUMBER OF TRANSMISSION DESTINATIONS (Address Max)
S1003
S1005
Job Copies = (Address Count + Address Max - 1) / Address Max
Job Copies = Address Count
END

FIG. 16

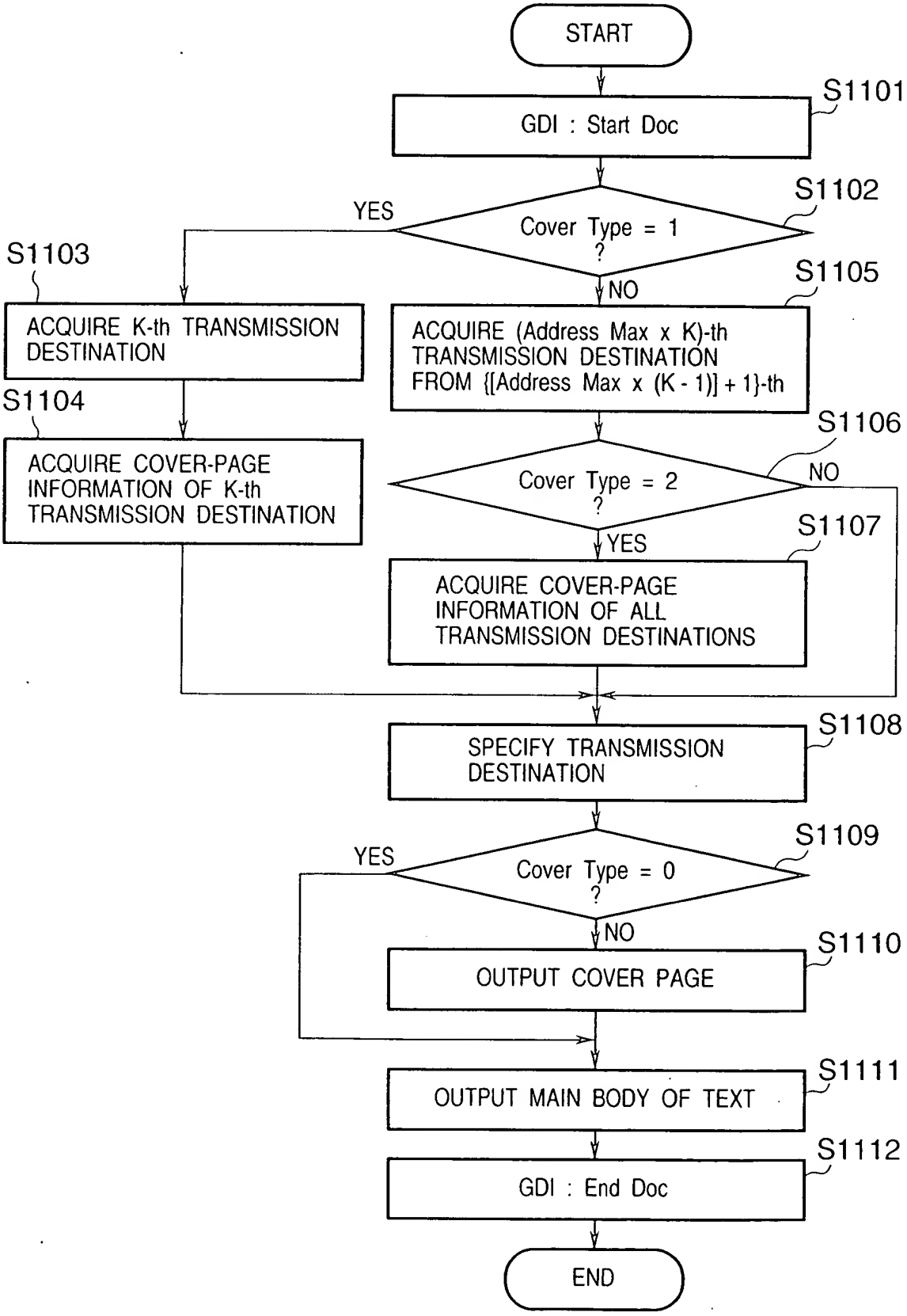

START
S1101
GDI : Start Doc
S1102
Cover Type = 1 ?
YES
NO
S1103
ACQUIRE K-th TRANSMISSION DESTINATION
S1104
ACQUIRE COVER-PAGE INFORMATION OF K-th TRANSMISSION DESTINATION
S1105
ACQUIRE (Address Max x K)-th TRANSMISSION DESTINATION FROM {[Address Max x (K - 1)] + 1}-th
S1106
Cover Type = 2 ?
NO
YES
S1107
ACQUIRE COVER-PAGE INFORMATION OF ALL TRANSMISSION DESTINATIONS
S1108
SPECIFY TRANSMISSION DESTINATION
S1109
Cover Type = 0 ?
YES
NO
S1110
OUTPUT COVER PAGE
S1111
OUTPUT MAIN BODY OF TEXT
S1112
GDI : End Doc
END

FIG. 17

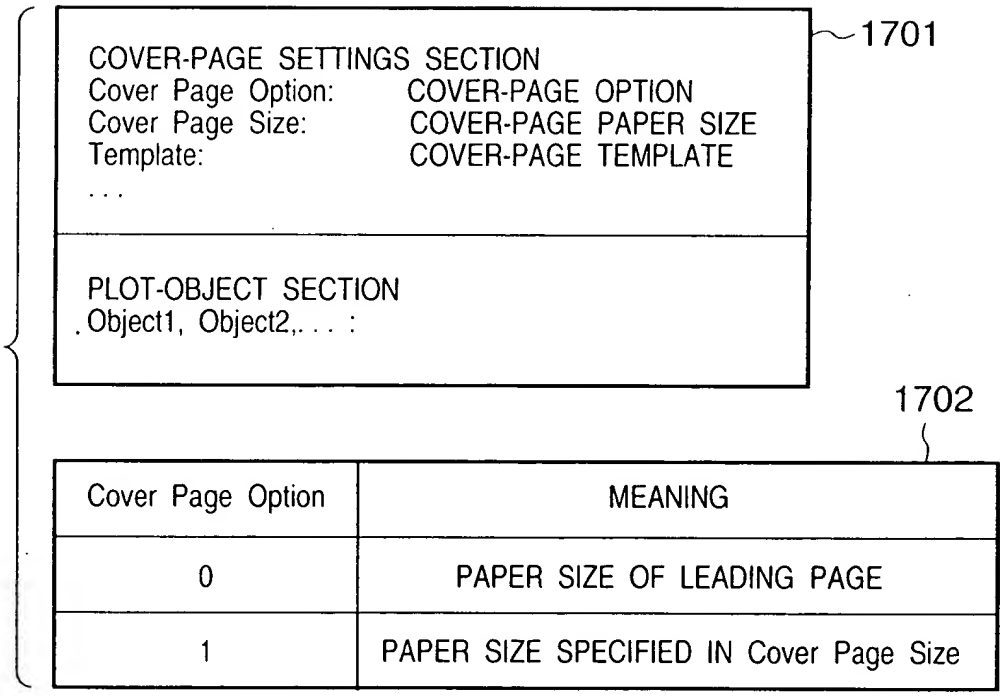

COVER-PAGE SETTINGS SECTION
Cover Page Option: COVER-PAGE OPTION
Cover Page Size: COVER-PAGE PAPER SIZE
Template: COVER-PAGE TEMPLATE
. . .
PLOT-OBJECT SECTION
. Object1, Object2,. . . :
1701
1702
Cover Page Option
MEANING
0
PAPER SIZE OF LEADING PAGE
1
PAPER SIZE SPECIFIED IN Cover Page Size

FIG. 18

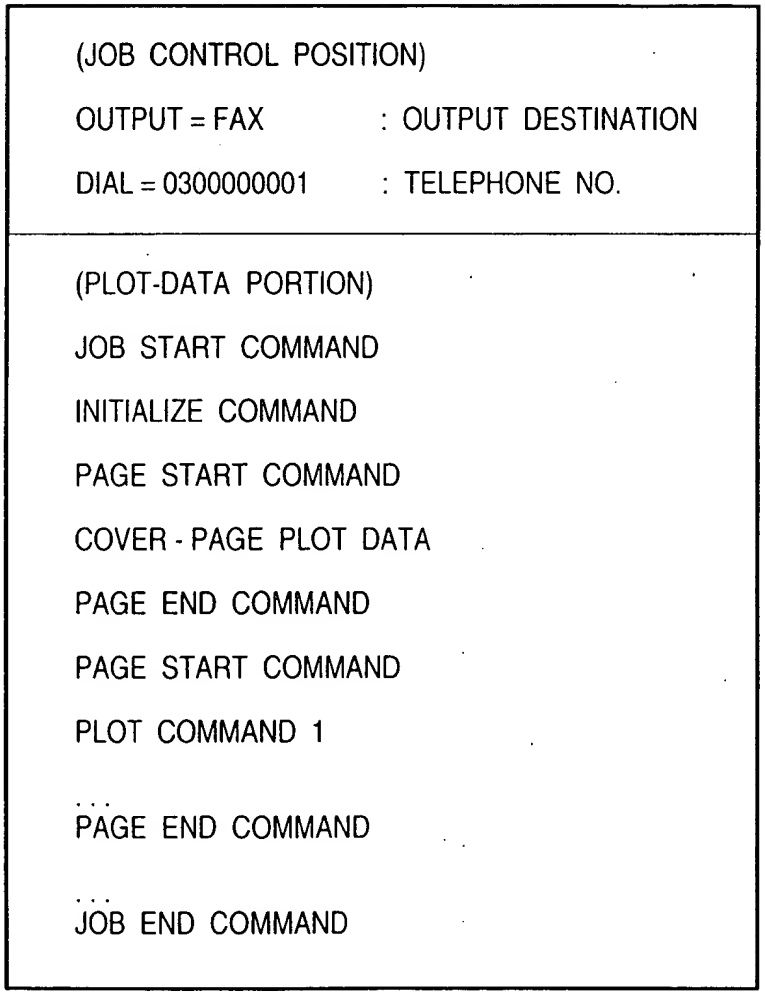
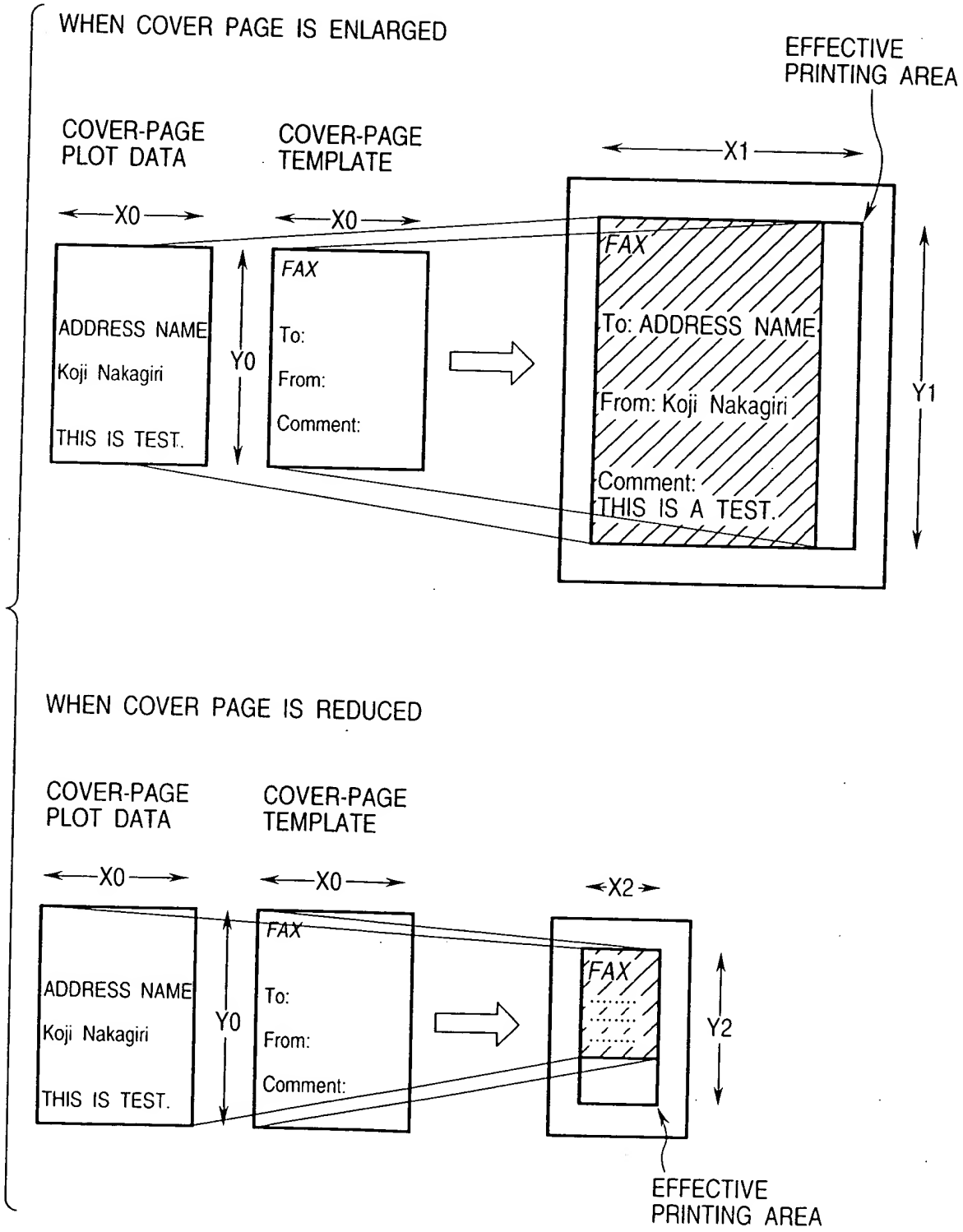

(JOB CONTROL POSITION)
OUTPUT = FAX : OUTPUT DESTINATION
DIAL = 0300000001 : TELEPHONE NO.
(PLOT-DATA PORTION)
JOB START COMMAND
INITIALIZE COMMAND
PAGE START COMMAND
COVER - PAGE PLOT DATA
PAGE END COMMAND
PAGE START COMMAND
PLOT COMMAND 1
...
PAGE END COMMAND
...
JOB END COMMAND

FIG. 19


WHEN COVER PAGE IS ENLARGED
EFFECTIVE PRINTING AREA
COVER-PAGE PLOT DATA
COVER-PAGE TEMPLATE
X1
X0
X0
FAX
ADDRESS NAME
Koji Nakagiri
THIS IS TEST.
Y0
FAX
To:
From:
Comment:
To: ADDRESS NAME
From: Koji Nakagiri
Comment:
THIS IS A TEST.
Y1
WHEN COVER PAGE IS REDUCED
COVER-PAGE PLOT DATA
COVER-PAGE TEMPLATE
X0
X0
X2
ADDRESS NAME
Koji Nakagiri
THIS IS TEST.
Y0
FAX
To:
From:
Comment:
FAX
Y2
EFFECTIVE PRINTING AREA